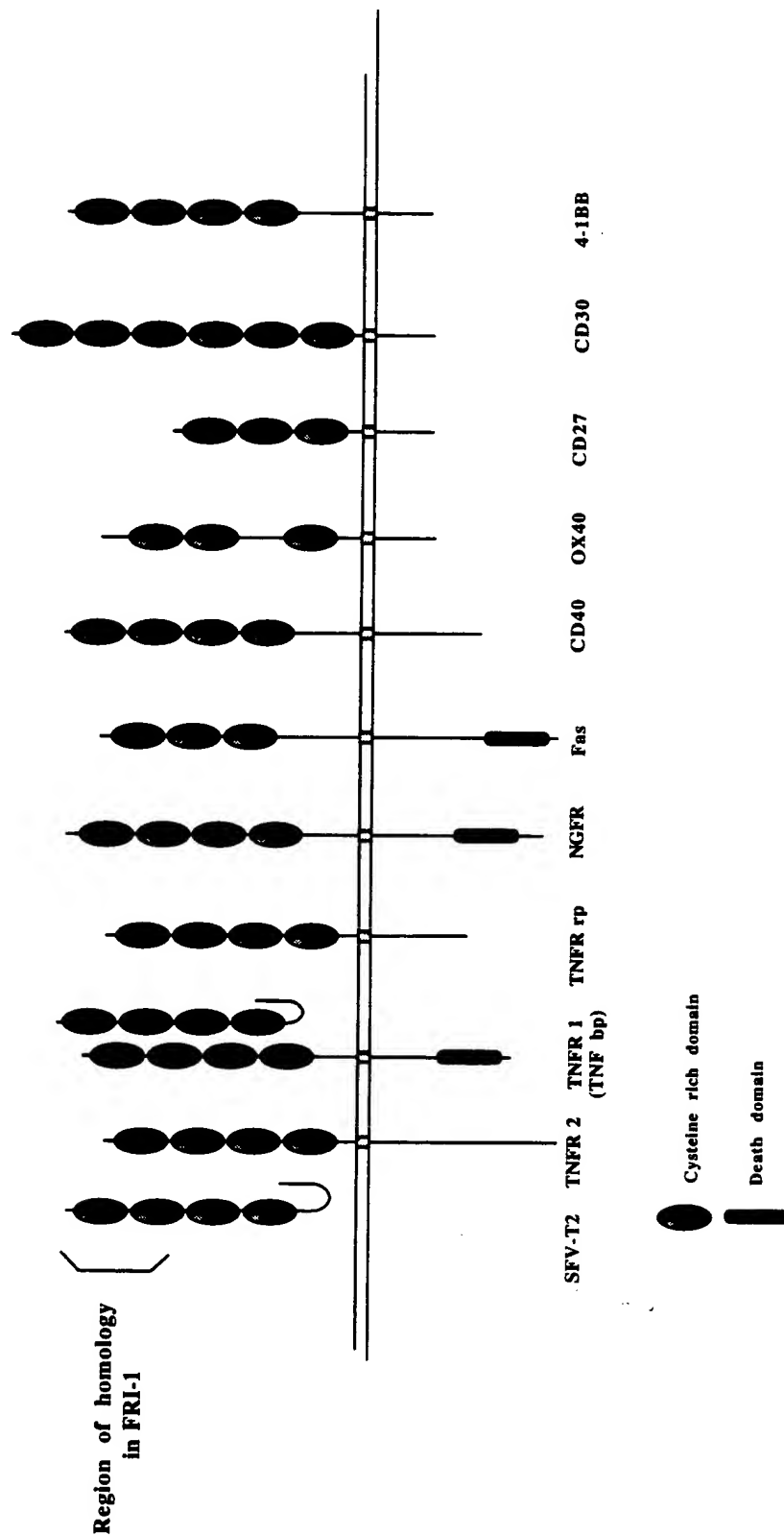


**Figure 1A**

18

FRI-1	69	YLHYDPETGRQLLCDKCAPGTYLKQHC.TVRRKTLCV.PCPDY.SYTD5W	
		. . .   .       :       :       :       .	
TNFR profile	6	YHYVDQNGRMCEECHMCQPGHFLVKHCKQPKRDTVCHKPCEPGVTYTD5W	
FRI-1	116	H	
TNFR profile	56	H	Z Score = 8.29

Figure 1C



AUG

2B

10 30 50  
ATCAAAAGGCAAGGCATACCTTCTGTGCCACGACCTTATATAAAACGTCATGTCGCCTG  
70 90 110  
GGCAGCAGAGAAAGCACCTAGCACTGGCCACGCGGCTGCCGCTGAGGTTTCCAGAGGACC  
130 150 170  
ACAATGAACAAGTGGCTGTGCTGTGCACTCTGTGGTGTCTTGGACATCATTTGAATGGACA  
190 210 230  
M N K W L C A L L V F L D I I E W T  
ACCCAGGAACCTTTCTCTCAAATCTTGCAATTATGACCCAGAAACCGGACGTCAGCTC  
250 270 290  
T T G T G T G C A A A A T G T G C T C T G G C A C C T A C C T A A A A C A G C A C T G C A C A G T C A G G A G G A A G  
L C D K K C A P G T Y L K Q H C T V R R K  
310 330 350  
ACACTGTGTGTCCTTGCCTTGCCTACTCTTATACAGACAGCTGGCACAGGAGTGATGAA  
T L C V P C P D Y S Y T D S W H T S D E  
370 390 410  
TGC GTG TACTG CAG C C C G T G T G C A A G A A C T G C A G A C C G T G A A C A G G A G T G C A A C C G C  
C V Y C S P V C K E L Q T V K Q E C M R  
430 450 470  
ACCCACAACCGAGTGTGCGAATGTGAGGAAGGCGCTACCTGGAGCTCGAATTTCTGCTTG  
T H N R N V C E C E E G R Y L E L E F C L  
490 510 530  
AAGCACCGGAGCTGCCCCAGGCTGGGTGTGCTGCAAGCTGGGACCCCGAGCGGAAAC  
K H R S C T P P G L G V L Q A G T P E R N  
550 570 590  
ACGGTTTGTCAAAGATGTCCGGATGGGTTCTTCTCAGGTGAGACGTCATCGAAAGCACCC  
T V C K K R C P D G F F S G E T S S K A P  
610 630 650  
TGTAGGAACACACCAACTGCAGCTCACTTGGCCCTCTGCTAATTCAGAAAGGAAATGCA  
C R K H T M C S S L G L L L L I Q K G M A  
670 690 710  
ACACATGACAATGTATGTTCCGGAACAGAGAACAACCTCAAATTTGTGGAATAGATGTC  
T H D N V C S G N R E A T Q N C G I D V  
730 750 770  
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T L C E E A F F R F A V P T K I I P N W  
790 810 830  
CTGAGTGTCTGCTGGACAGTTTGCCTGGGACCAAAGTGAATGCAGAGAGTGTAGAGAGG  
L S V L V D S L P G T K V N A E S V E R  
850 870 890  
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I K R R H S S C E Q T F Q L L K L K L W K H  
910 930 950  
CAAAACAGACAGCCAGGAAATGGTGAAGAAGATCATCCAAGACATTGACCTCTGTGAAAGC  
Q N R D Q E M V K K I I Q D I D L C E S  
970 990 1010  
AGTGTGCAACGGCATATCGGCCACGCGAACCTCACCACAGACAGCTCCGCATCTTGATG  
S V Q R H I G H A M L T T E Q L R I L M  
1030 1050 1070  
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E S L P G K K I S P D E I E R T R K T K  
1090 1110 1130  
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K P S E Q L L K L L S L W R I K N G D Q  
1150 1170 1190  
GACACCTTGAAGGGCCTGATGTACGCATCAAGCACTTGAAGCATACCACTTTCCCAA  
D T L K G L M Y A L K H L K A Y H F P K  
1210 1230 1250  
ACCGTACCCACAGCTGTAGGAAGACCATCAGGTTCTTGCAGSFTTACCATTGACCGA  
T V T H S L R K T I R F L H S F T M Y R  
1270 1290 1310  
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L Y Q K L F L E M I G N Q V Q S V K I S  
1330 1350 1370  
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C L  
1390 1410 1430  
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1450 1470 1490  
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1510 1530 1550  
GGCTATTGTATAATTGTGCAAAAGCTGCCAGGTGTACACTAGAAAGTCAAGCACCTGAG  
1570 1590 1610  
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1630 1650 1670  
TACTCAGAAGGCTTCTACTATCTTCTGTGTCATCCCTAGATGAAGGCTCTTTTATTAT  
1690 1710 1730  
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1750 1770 1790  
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1810 1830 1850  
AGTCTATGACATTCTTTTTTCTACAATTCGTATCAGGTGCACGACCTTATCCATTGTG  
1870 1890 1910  
AGGTTTCTAGGCAAGTTGACCGTTAGCTATTTTTTCCCTCTGAAGATTGTGATTCGAGTTGC  
1930 1950 1970  
AGACTTGGCTAGACAAGCAGGGGTAGGTTATGGTAGTTTATTTAAGACAGCTGCCACCAGG  
1990 2010 2030  
AGTCCAGGTGTTCTTGTCTCTCTGTAGTTGTACCTAAGCTGACTCCAAGTACATTTAGTA  
2050 2070 2090  
TGAAAAATATCAACAAATTTTATTCTTCTATCAACATTTGGCTAGCTTTGTTTCAGGGC  
2110 2130 2150  
ACTAAAAGAACTACTATATGGAGAAAGAAATGATATGCCCCAACGTTCAACAACCCA  
2170 2190 2210  
ATAGTTTATCCAGCTGTATGCTGCTGGTTCAGTGTCTACTGACTATGCGCCCTCTTATTAC  
2230 2250 2270  
TGCATGCAGTAATTCAACTGGAAATGATTAATAATAATAGAAATAAAATCTAGACTCC  
2290 2310 2330  
ATTGGATCTCTCTGAATATGGGAATATCTAACTTAAAGAGCTTTGAGATTTTCAAGTTGTG  
2350 2370 2390  
TAAAGGCTTTTATTAAGAGCTGATGCTCTCTCTGTGTAAGGTTACTAATATATCTGTAAGA  
2410 2430  
CTATTACAGTATTGCTATTATATCCATCCAG



fas.frg M L G I W T - - - L L P L V L T S - V A R L S S K S V N A Q V T D I N S K G L E L R K T V T T V C  
 tnfr1.frg - M G L S T V P D L L L P L V L L E L L V G I Y P S G V I G L V P H - - - - L G D R E K R D S V C  
 sfv-t2.frg -  
 tnfr2.frg - - - - - - - - - - - M A P V A V W A A L A V G L E L W A A A H A L P A Q V A F T P Y A P E P G S T  
 cd40.frg -  
 osteo.frg -  
 ngfr.frg -  
 ox40.frg -  
 4lbb.frg -

fas.frg T Q N L E G L H H D G Q F C H K P C P G E R K A R D C T V N G D E P D C V P C O E G K E Y T D K A  
 tnfr1.frg P Q G K Y I H P Q N N S I C C C T S K C H K P G T Y A L Y N R D C P G P G Q D T D C R E C E S G S F Y T A S T E N N  
 sfv-t2.frg G K C G G H D Y E K D G L I C C C C S K C S P G Q F A K R V F C C G T S N T T V C S P C - E D S G S F Y T A S T E N N  
 tnfr2.frg C R L R E Y Y D Q T A Q M C C C S K C S P G Q S R L T S H C C T A L E K T T Q C H P C - D S G E F Y T A S T E N N  
 cd40.frg K Q Y L H D G Q C - - - - C C D L C C Q P G Q S R L T S H C C T A L E K T T Q C H P C - D S G E F Y T A S T E N N  
 osteo.frg K Y L H Y D P E T G R Q L L C C D K C A P L G T Y L K Q H C C T V R R K T T L C V P C - P D Y S F Y T A S T E N N  
 ngfr.frg G L Y T H S G E - - - - C C K A C N L G E G V A Q P C C G - A N Q T T V C E P C L D S V T F Y T A S T E N N  
 ox40.frg D T Y P S G H K - - - - C C K R E C Q P G H G M V S R C C G - A N Q T T V C E P C L D S V T F Y T A S T E N N  
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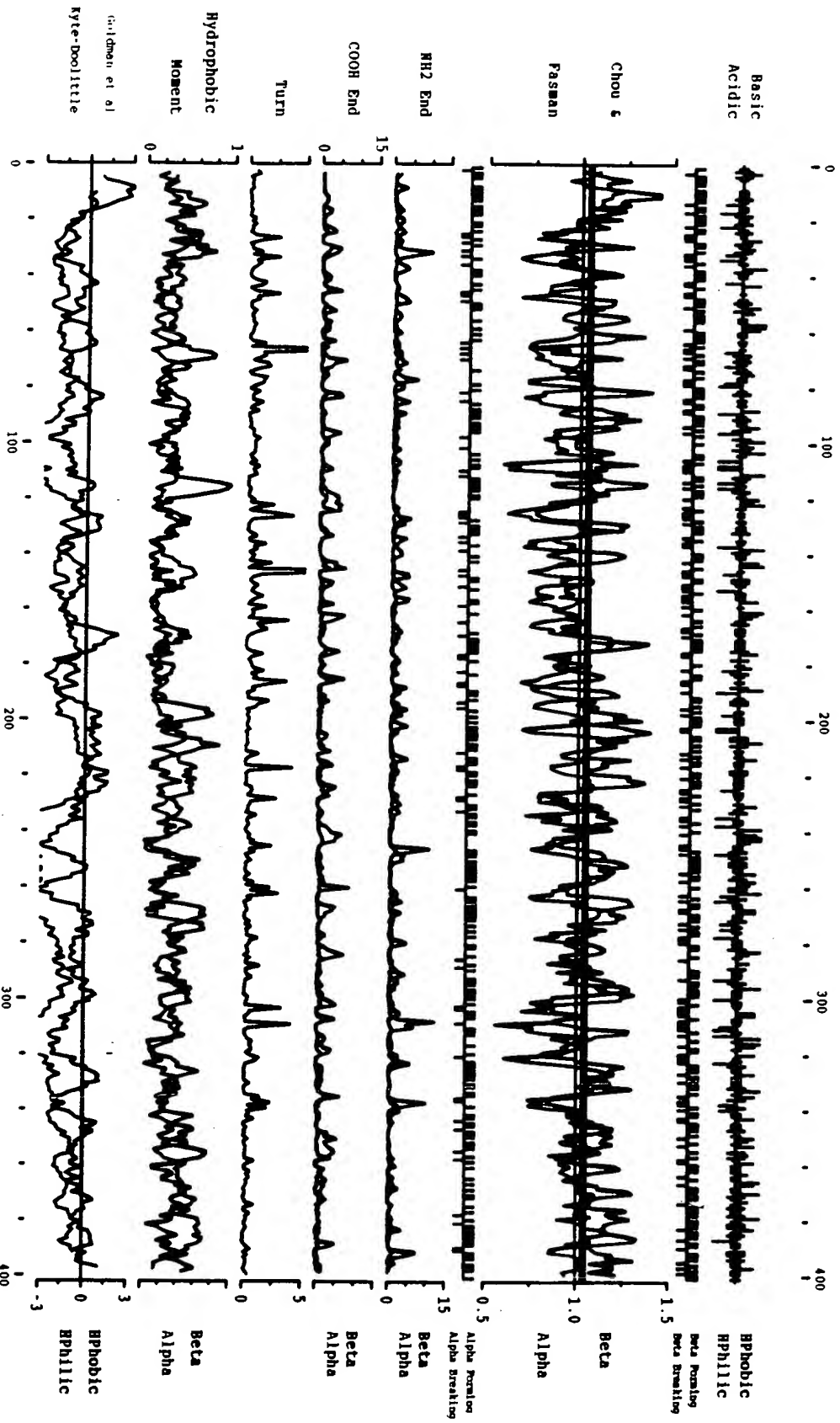
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 sfv-t2.frg H - - - - A P A C C S C R G -  
 tnfr2.frg W - - - - V P E C L S C G S -  
 cd40.frg R E I R C H Q H R H C E P -  
 osteo.frg - - - - T S D E C V Y C S P -  
 ngfr.frg A T E P C K P C T E C C -  
 ox40.frg - Y D T C K Q C T Q C N H -  
 4lbb.frg - - I G G Q P N C N I C R -

fas.frg - C R L C D E G H G L E V E I N C T R Q N T K C R C K P N F F C N S T V C E H C D N P C T K C S E H G  
 tnfr1.frg N C S L C L N G - - - - T S E V H S C Q D R T H D R V C N C H A G N Y C L R E N E G C V G C C S R I C A P L R K C C  
 sfv-t2.frg - - - - - P C T G H L S V S Q P C C Q R T H D R V C N C H A G N Y C L R E N E G C V G C C S R I C A P L R K C C  
 tnfr2.frg - - - - - R C S S D Q V E T Q A C T R E Q N R I C N C S R P T G W Y C A L S K Q E G C R L C A P L R K C C  
 cd40.frg - - - - - - - N Q G L R V K K E G T A E S D T V C T C K E G Q H C T S K D C E E - - - A C A Q H T P C C  
 osteo.frg - - - - - V C K E L Q T V K Q E C N R T H N R V C E C E E G R Y - - - - L E L E - - - F C C L K H R S C C  
 ngfr.frg - - - - - V G L Q S M - - - S A P C V E A D D A V C R C A Y - - - - - Q D E T T G R C E A C R V C C  
 ox40.frg - - - - - R S G S E L - - - K Q N C T P T E D T V C Q C - - - - - R P G T Q P R Q D S S H - - - E K D C  
 4lbb.frg - - - - - V C A G Y F R F K K F C S S T H N A E C E C I E G F H C L G P Q C T R C - - - - - E K D C

fas.frg - - - - - I I K E C T L T S N T K C K E - - - - - E G S R S N L - - - - - G W L C L L L L P I P L I  
 tnfr1.frg - - - - - T K L C L P Q I E N V K G T E - - - - - D S G T T V L L P L V I F F L C L L S L L P L I  
 sfv-t2.frg P A G Y G V S - G H T R A G S D T L C E K C P P H T Y S D S T S P T E R I C G T S F N Y I S V G F N L Y  
 tnfr2.frg R P G G F G V A R P G T T E T S D T V C K R P C A P G T T Y S S N T S T S L F E K C R P H T S C E S D K N L E V L  
 cd40.frg I P G G F G V M E M A T E T S D T V C H P C P V G F F S S G E T S S K A P C R K H T N C S S L G L L L I  
 osteo.frg P P G L G V L Q A G T P E R N T T V C K R C P D G F F S S G E T S S K A P C R K H T N C S S L G L L L I  
 ngfr.frg E A G S G L V F S C Q D K Q N T T V C E E C P D G T Y S D E A N H V D P C L P C T V C E D T E R Q L R  
 ox40.frg - - - - - - - - - - - K L G V D C V P C P P G H F S P G S N - - - Q A C K P W T N C T L S G K Q I R  
 4lbb.frg R P G Q E L T R Q G - - - - - C K T C S L G T F E N D Q - - - - - N G T G V C R P W T N C S L D G R S V L

fas.frg V W V - - - - - K R K E V Q K T C R K H R K E N Q G S H E S P T L N P E - - - - - - - - - - - - - - - - -  
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 sfv-t2.frg P V N -  
 tnfr2.frg A S R -  
 cd40.frg Q K G -  
 osteo.frg Q K G -  
 ngfr.frg E C T R W A D A E C E E I P G R - - - - - W I T R S T - - - - - P P E G S D S T A P S T Q E P E A P P E Q D L I  
 ox40.frg H P A S N S V C E D R S L L A T L L W E T Q R T T F R P T T V P S T T V W P R T S T P T Q T L V  
 4lbb.frg K T G T T E K D V V C G P P V V S F S P S T T I S V T P E G G P G - - - - - - - - - - - - - - - - -

FIGURE 3



Goldman et al  
Kyle-Doolittle

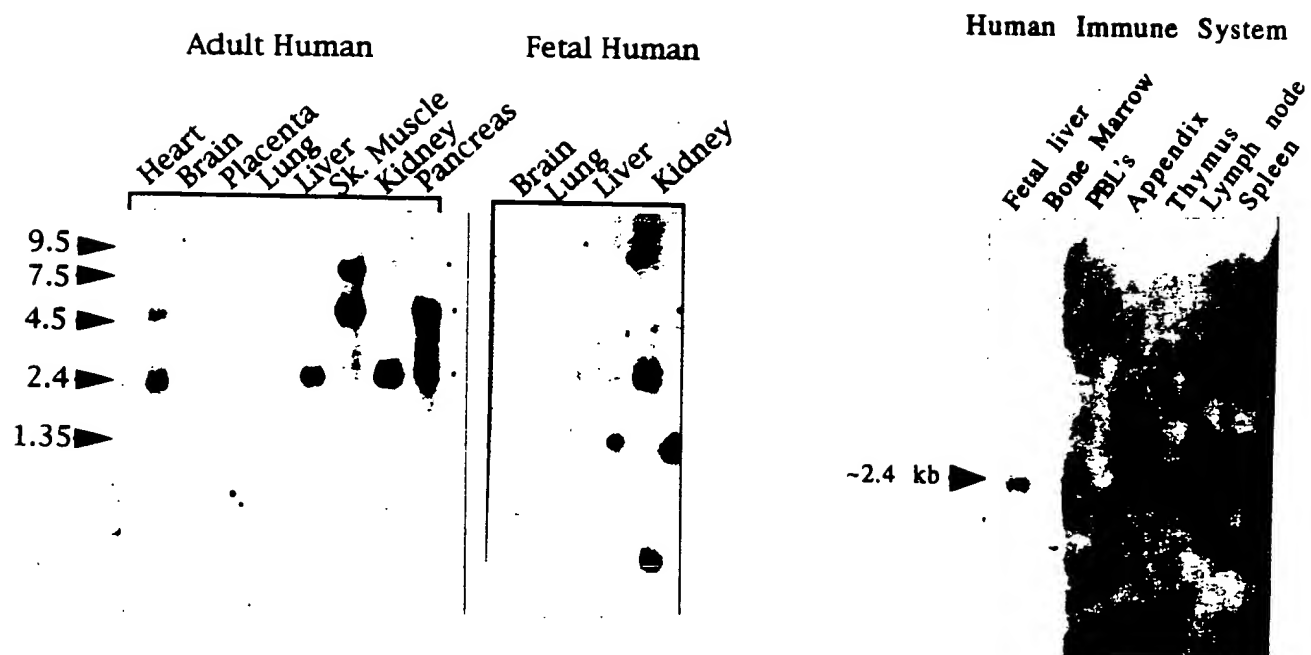
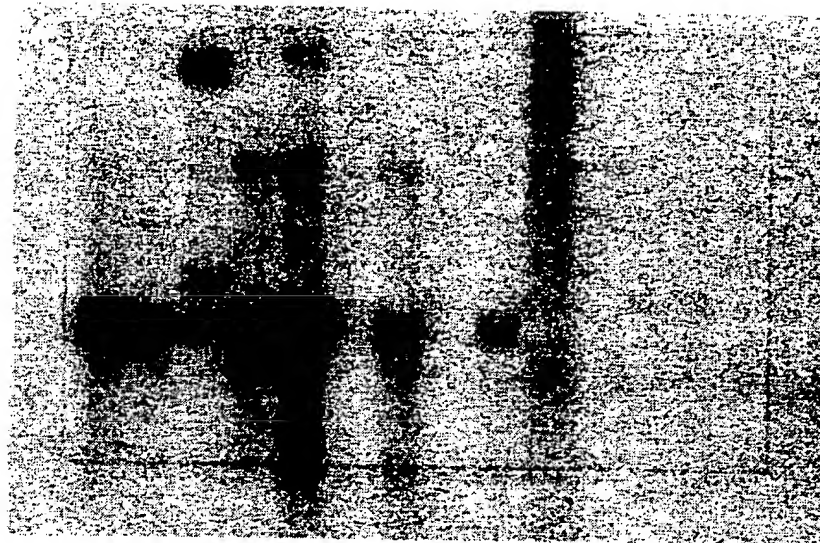
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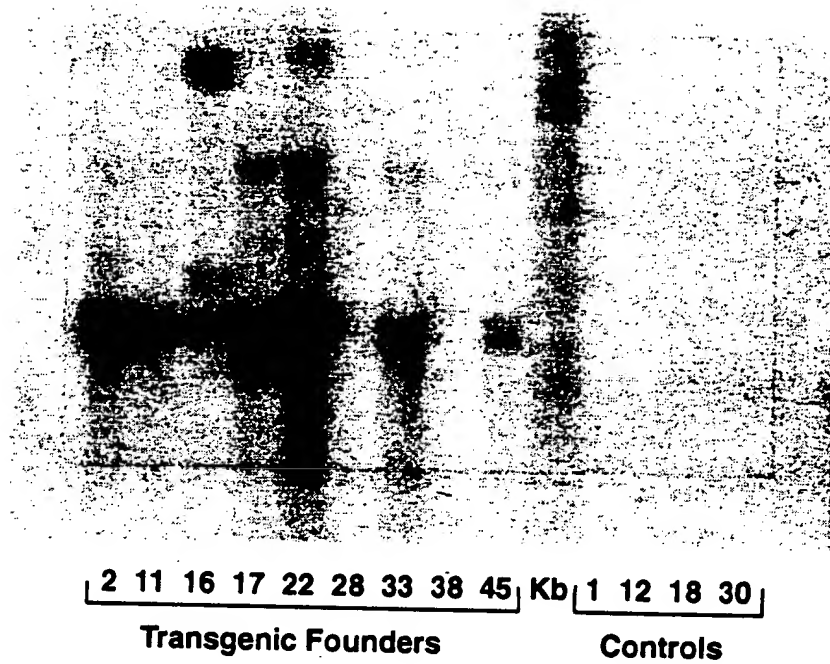
FIGURE 5



2 11 16 17 22 28 33 38 45 Kb 1 12 18 30  
Transgenic Founders Controls

08974485-11997

FIGURE 5



08074486-1499  
26677-9877/080



FIGURE 6

PANEL A

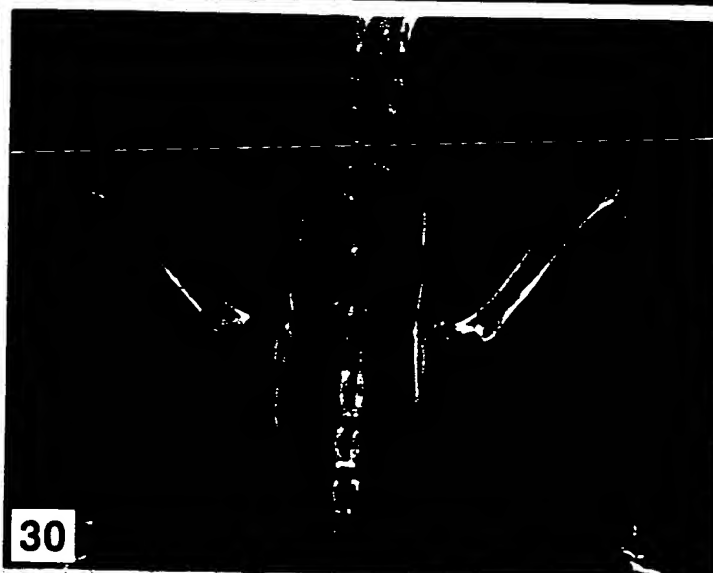
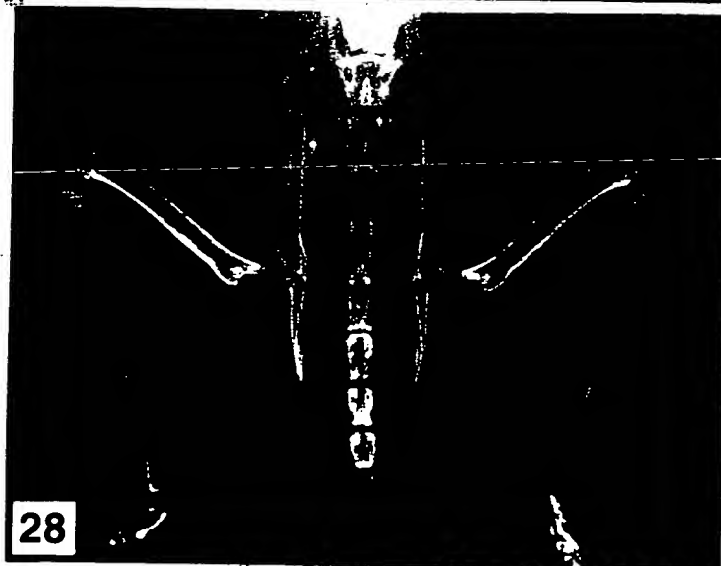
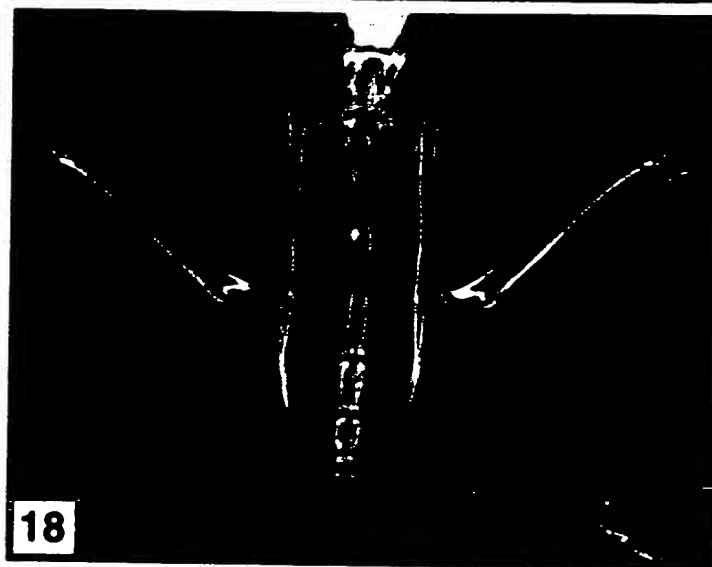
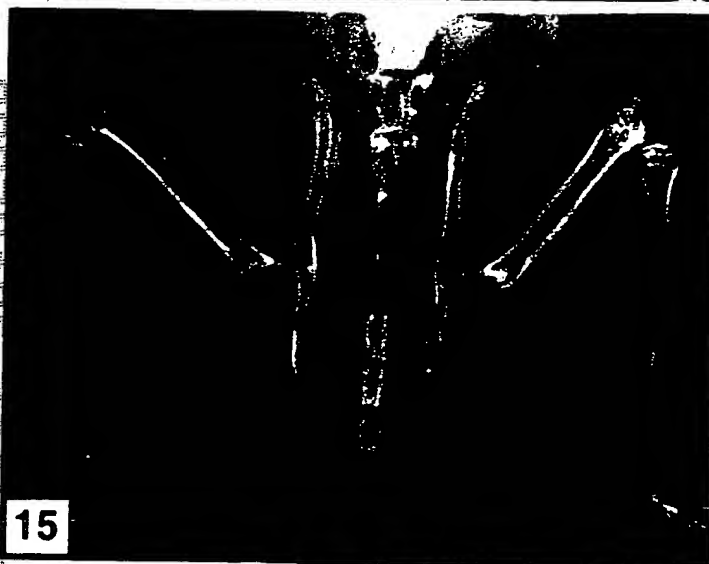
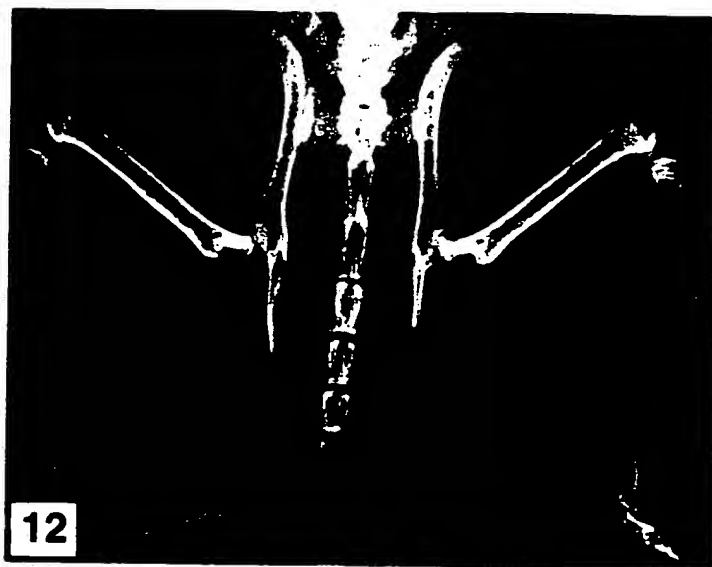
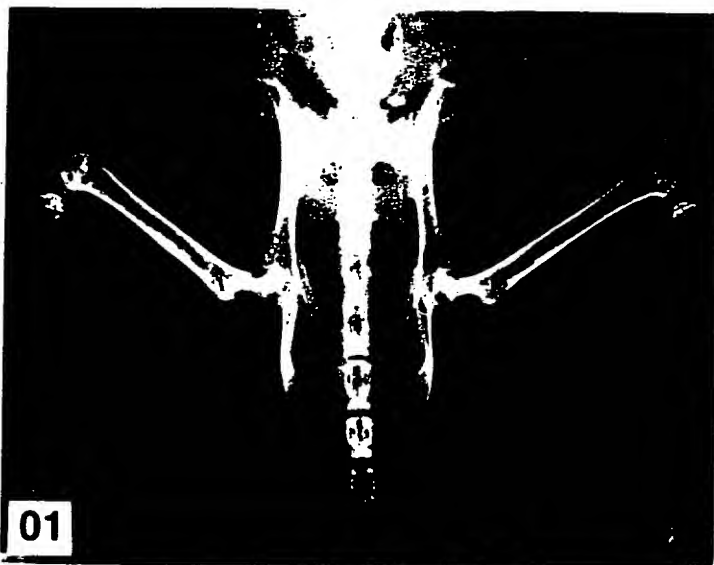
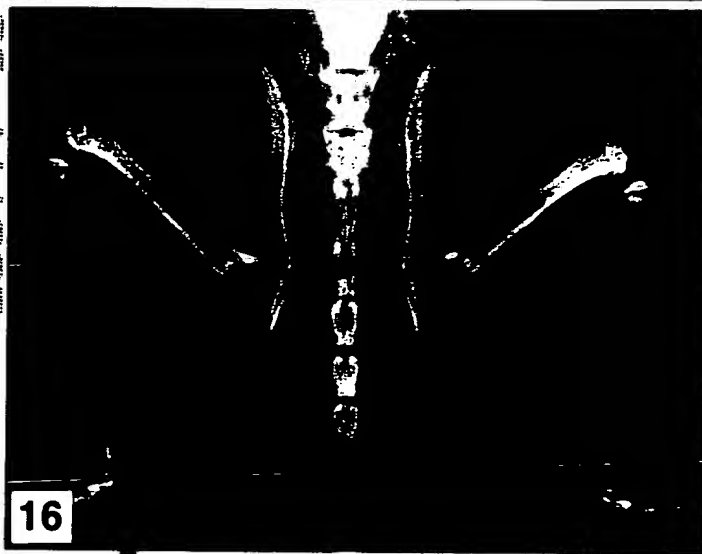
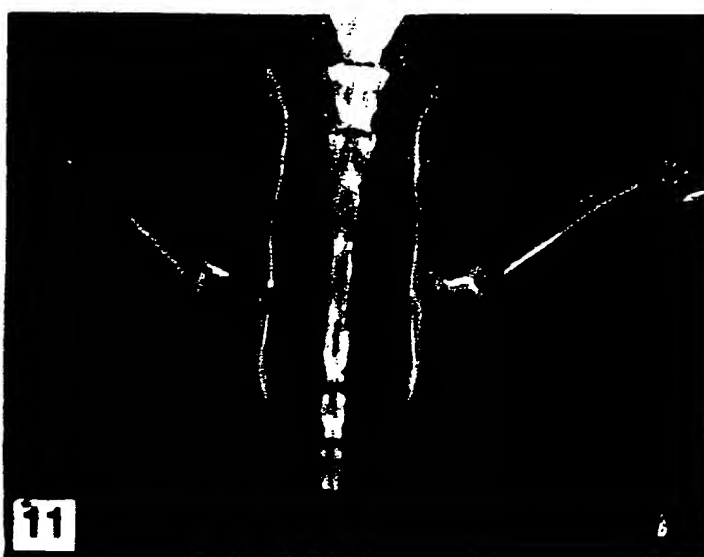
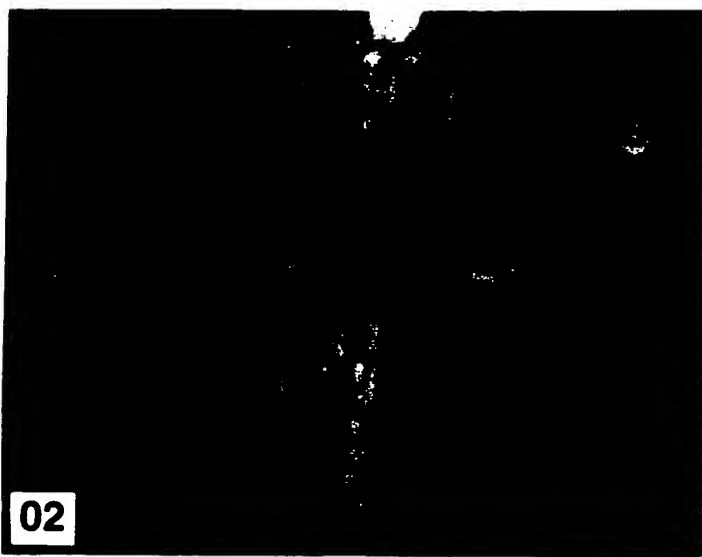


FIGURE 6

PANEL B



08974135-441997

FIGURE 7

PLATE A

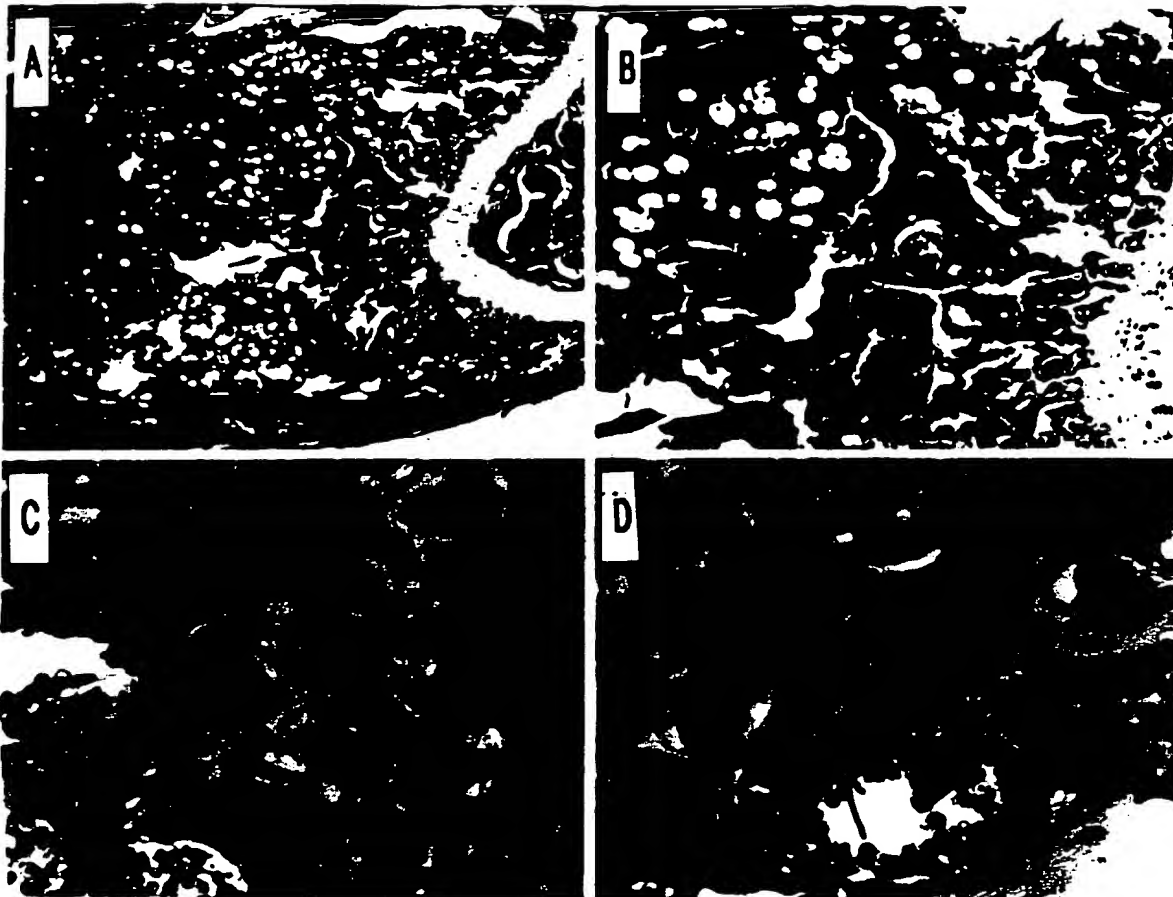
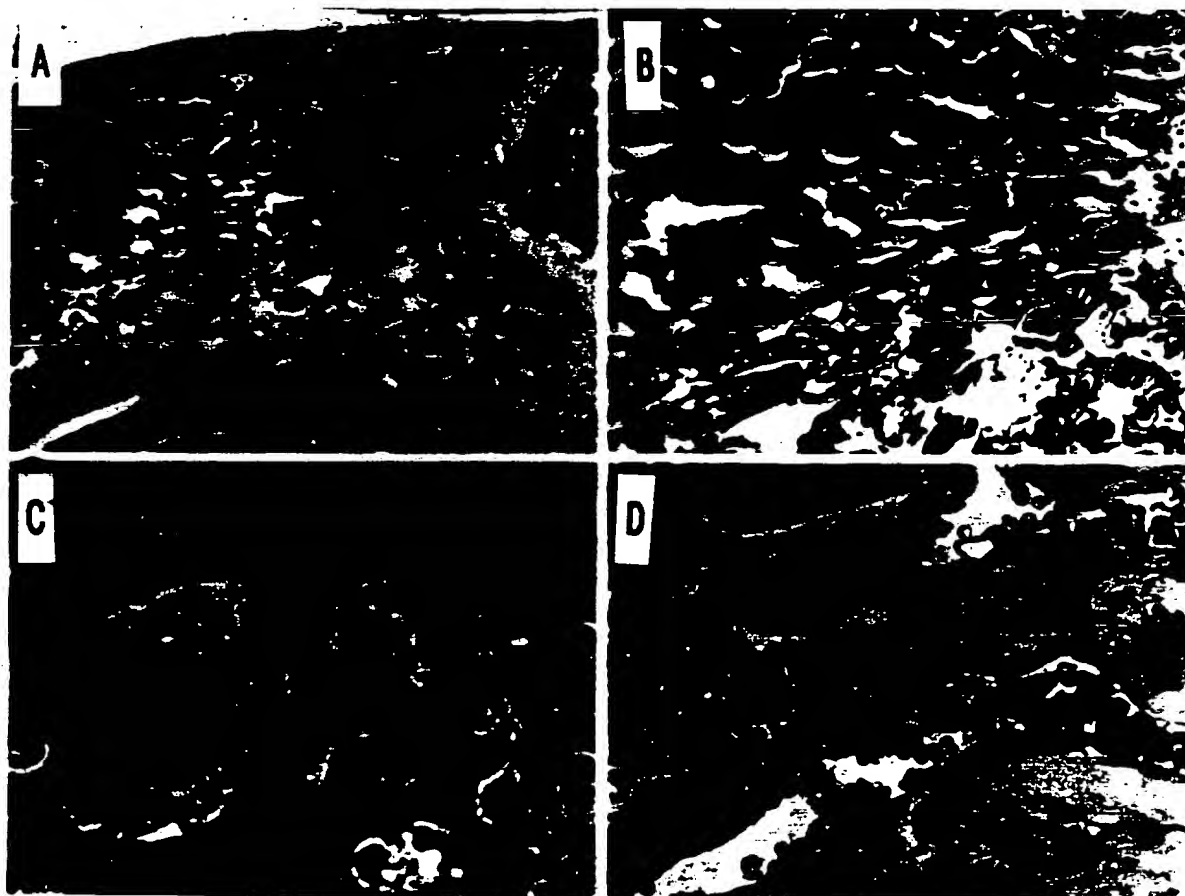
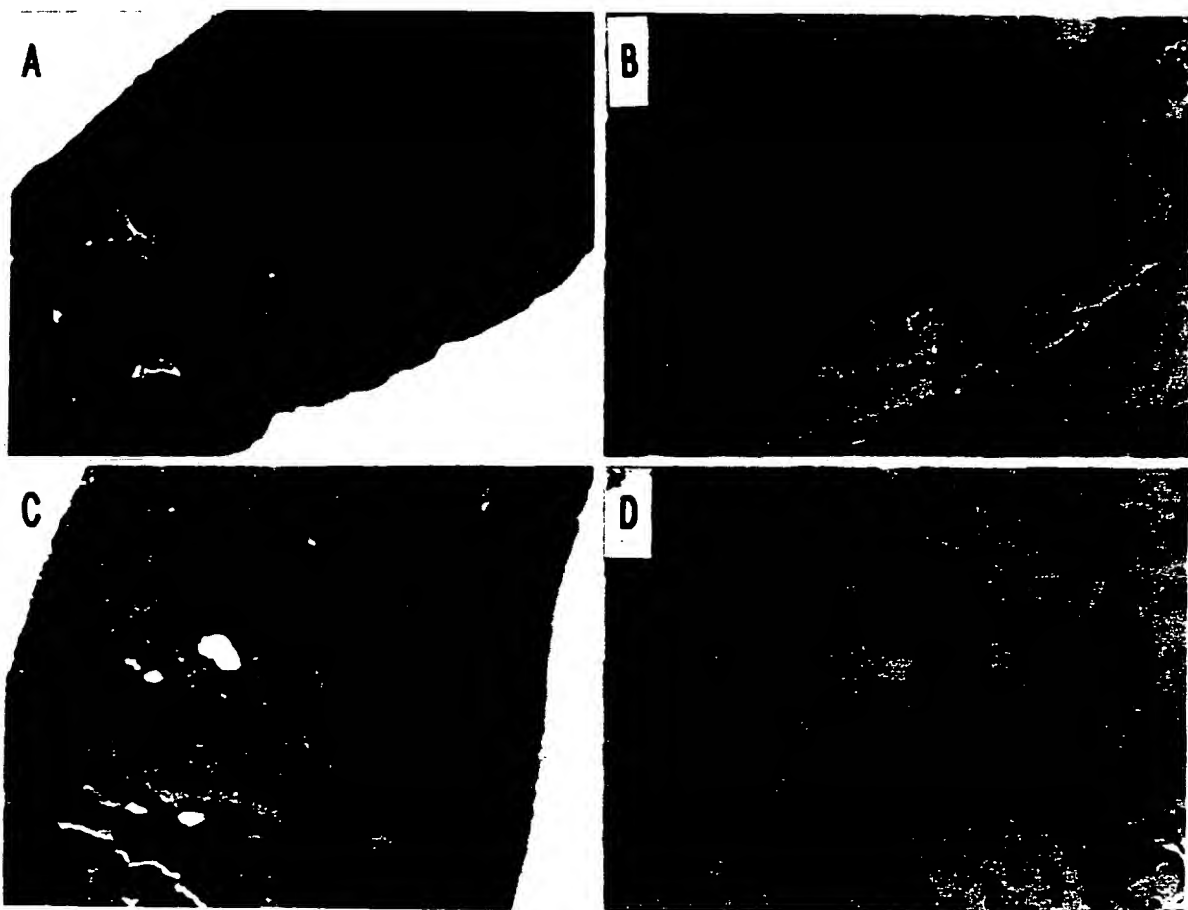


PLATE B



26611-5812680

FIGURE 8



08974485-144997

FIGURE 9A

10 30 50  
 CCTTATATAARACGTCATGATTGCCTGGGCTGCAGAGACGCACCTAGCACTGACCCAGCG  
 70 90 110  
 GCTGCCTCCTGAGGTTTCCCGAGGACCACAATGAACAAGTGGCTGTGCTGCGCACTCCTG  
 130 150 170  
 GTGCTCCTGGACATCATTGAATGGACAACCCAGGAAACCTTCTCCAAAGTACTTGCAT  
 190 210 230  
 TATGACCCAGAACTGGTCATCAGCTCCTGTGTGACAAATGTGCTCCTGGCACCTACCTA  
 250 270 290  
 AAACAGCACTGCACAGTGAGGAGGAAGACATTGTGTGCTCCCTTGCCCTGACCACTCTTAT  
 310 330 350  
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 370 390 410  
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 430 450 470  
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 490 510 530  
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 550 570 590  
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 610 630 650  
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 670 690 710  
 GCCACGCAAAAGTGTGAATAGATGTACCCCTGTGTGAAGAGGCTTCTTCAGGTTTGCT  
 730 750 770  
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 790 810 830  
 AAAGTGAATGCGAGAGTGTAGAGAGGATAAAACGGAGACACAGCTCACAAGAGCAAACC  
 850 870 890  
 TTCCAGCTGCTGAAGCTGTGGAACATCAAAACAGAGACCAGGAAATGGTGAAGAAGATC  
 910 930 950  
 ATCCAAGACATTGACCTCTGTGAAAGCAGCGTGCAGCGGCATCTCGGCCACTCGAACCTC  
 970 990 1010  
 ACCACAGAGCAGCTTCTTGCTTGTGAGAGAGCTGCTGGGAAGAAGATCAGCCCAGAA  
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 1150 1170 1190  
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 1210 1230 1250  
 TTCTGACAGCTTCAAAATGTACAGACTGTATCAGAAGCTCTTTTAGAAATGATAGGG  
 1270 1290 1310  
 AATCAGGTTCAATCCGTGAAAAATAAGCTGCTTATAACTAGGAATGGTCACTGGGCTGTTT  
 N Q V Q S V K I S C L  
 CTCA

269744250

FIGURE 9B

10 30 50  
 GTATATATAACGTGATGAGCGTACGGGTGCGGAGACGACCGGAGCGCTCGCCAGCCGC  
 70 90 110  
 CGYCTCCAAGCCCCGTGAGGTTCCGGGGACCACAATGAACAAGTTGCTGTGCTGCGCGCT  
 130 150 170  
 CGTGTTCCTGGACATCTCCATTAAGTGGACACCCAGGAAACGTTTCCTCCAAAGTACCT  
 190 210 230  
 TCATTATGACGAAGAAACCTCTCATCAGCTGTTGTGTGACAAATGTCCTCCTGGTACCTA  
 250 270 290  
 CCTAAACAACACTGTACAGCAAAGTGAAGACCGGTGCGCCCTTGCCCTGACCACTA  
 310 330 350  
 CTACACAGACAGCTGGCACACCACTGACGAGTGTCTATCTGACGCCCGTGTGCAAGGA  
 370 390 410  
 GCTGCAGTACGTCAAGCAGGAGTGAATCGCACCCACAACCGCGTGTGCGAATGCAAGGA  
 430 450 470  
 AGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTGGATTGG  
 490 510 530  
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 550 570 590  
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 610 630 650  
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 670 690 710  
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 730 750 770  
 TGCTGTTCCTACAAAGTTTACGCCTAAGCTTAGTGTCTTGGTAGACAATTTGCCTGG  
 790 810 830  
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 850 870 890  
 GACTTTCAGCTGCTGAAGTTATGGAACATCAAAACAAGACCAAGATATAGTCAAGAA  
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 970 990 1010  
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 1210 1230 1250  
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 1270 1290 1310  
 AGGTAACCGGTCATCAGTAAAAATAAGCTGCTTATAACTGGAATGGCCATTGAGCT  
 1330 1350  
 GTTTCCTCACAATTGGCGAGATCCCATGGATGATAA

00074486-14997

FIGURE 9C

muosteo.frg MNKWLCCALVLLDIIEMTTTQETLPPKYLHYDPETGHOQLLCDKCAPGTYL  
 atosteo.frg MNKWLCCALVLLDIIEMTTTQETLPPKYLHYDPETGHOQLLCDKCAPGTYL  
 huosteo.frg MNKLLCCALVLLDIIEMTTTQETLPPKYLHYDEETSHOQLLCDKCAPGTYL

muosteo.frg KQHCTVRRKKTLCVPCPDHSTYTDSSWHTSDDECVCSPVCKEELQSVKQEECNRT  
 atosteo.frg KQHCTVRRKKTLCVPCPDHSTYTDSSWHTSDDECVCSPVCKEELQSVKQEECNRT  
 huosteo.frg KQHCTVRRKKTLCVPCPDHSTYTDSSWHTSDDECVCSPVCKEELQSVKQEECNRT

muosteo.frg HNRVCECEEGGRYLEIEFCLKHRSCPPGSGVVOAGTPPERNTVCKRKCPDGGFF  
 atosteo.frg HNRVCECEEGGRYLEIEFCLKHRSCPPGSGVVOAGTPPERNTVCKRKCPDGGFF  
 huosteo.frg HNRVCECEEGGRYLEIEFCLKHRSCPPGSGVVOAGTPPERNTVCKRKCPDGGFF

muosteo.frg SGETSSSKAPCIIKHTNCSSTFGLLLIOKGNATHDNCVCSGNREATOKCGIDVT  
 atosteo.frg SGETSSSKAPCIIKHTNCSSTFGLLLIOKGNATHDNCVCSGNREATOKCGIDVT  
 huosteo.frg SNETSSSKAPCRKHTNCSSTFGLLLIOKGNATHDNCVCSGNREATOKCGIDVT

muosteo.frg LCEEAAFFFAVPTKIIIPNWL SVLVDSLP GTKVNAE SVERIKRRHSSSQEOET  
 atosteo.frg LCEEAAFFFAVPTKIIIPNWL SVLVDSLP GTKVNAE SVERIKRRHSSSQEOET  
 huosteo.frg LCEEAAFFFAVPTKIIIPNWL SVLVDSLP GTKVNAE SVERIKRRHSSSQEOET

muosteo.frg FQLLKLWKHQNDRDQEMVKKIIQDIDLCESSSVQRHHLGHSNLTTEOQLLALME  
 atosteo.frg FQLLKLWKHQNDRDQEMVKKIIQDIDLCESSSVQRHHLGHSNLTTEOQLLALME  
 huosteo.frg FQLLKLWKHQNDRDQEMVKKIIQDIDLCESSSVQRHHLGHSNLTTEOQLLALME

muosteo.frg SLPGKKKISPEEIERTRKTKCKSSSEQLLKL LSLWRIKNGDQDTLKGLMYALK  
 atosteo.frg SLPGKKKISPEEIERTRKTKCKSSSEQLLKL LSLWRIKNGDQDTLKGLMYALK  
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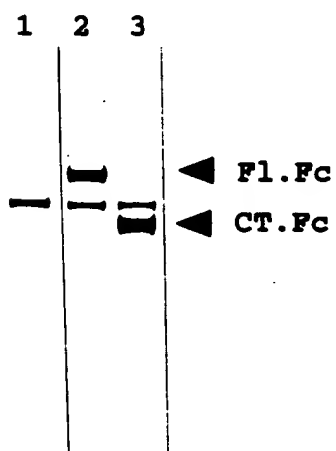
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 atosteo.frg HLKTSHF PKTVTHSLRKTMRFLHSFTMYRLYOQLFLEMIGNOVQSVKIS  
 huosteo.frg HSKTYHF PKTVTHSLRKTMRFLHSFTMYRLYOQLFLEMIGNOVQSVKIS

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 atosteo.frg L  
 huosteo.frg L

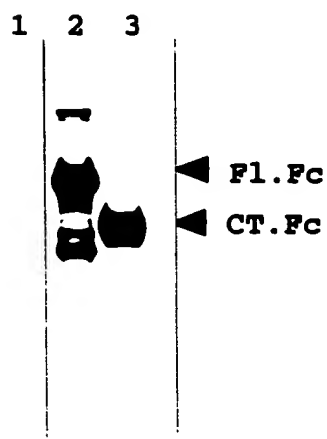
Figure 10A



10B



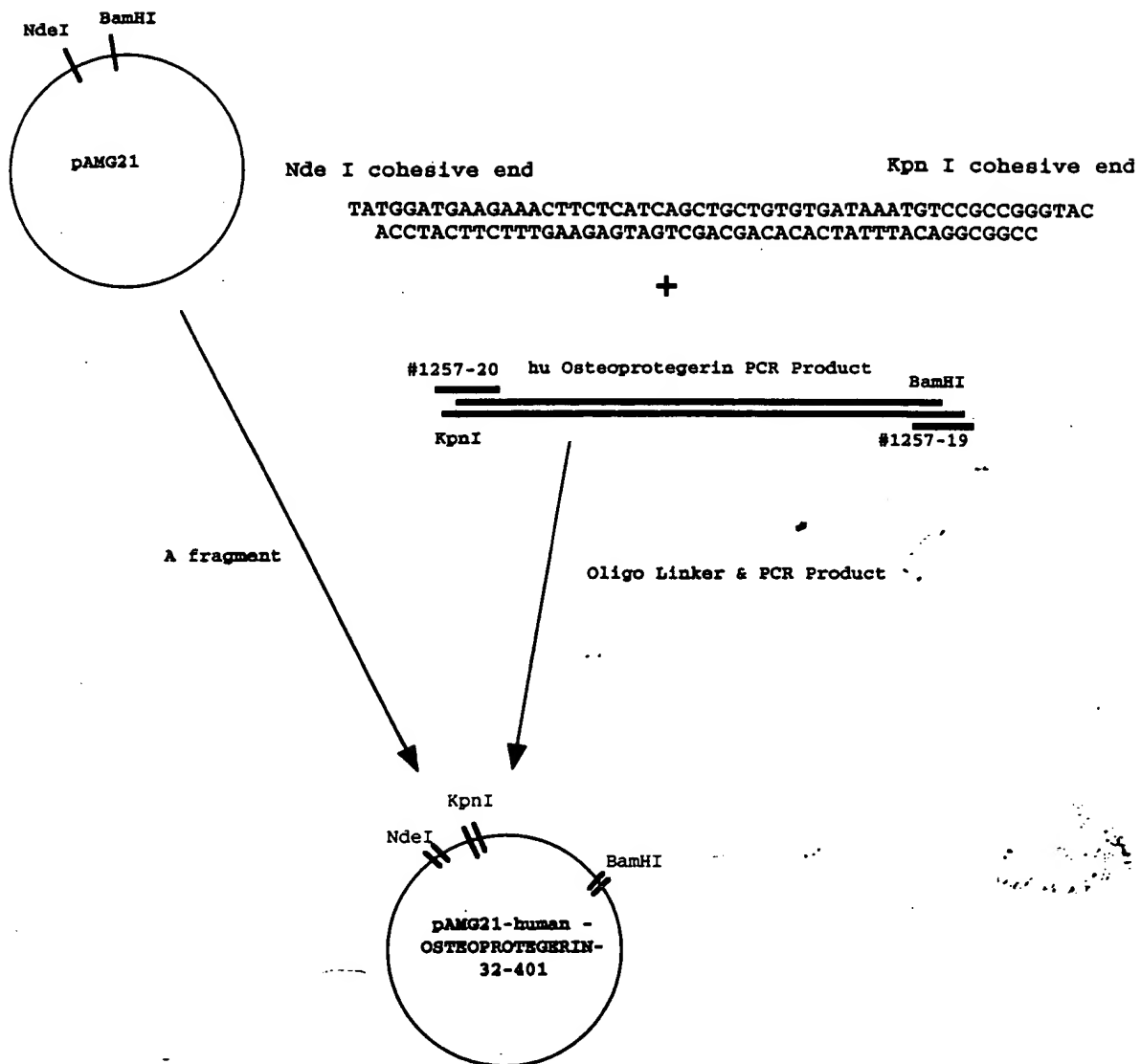
10C



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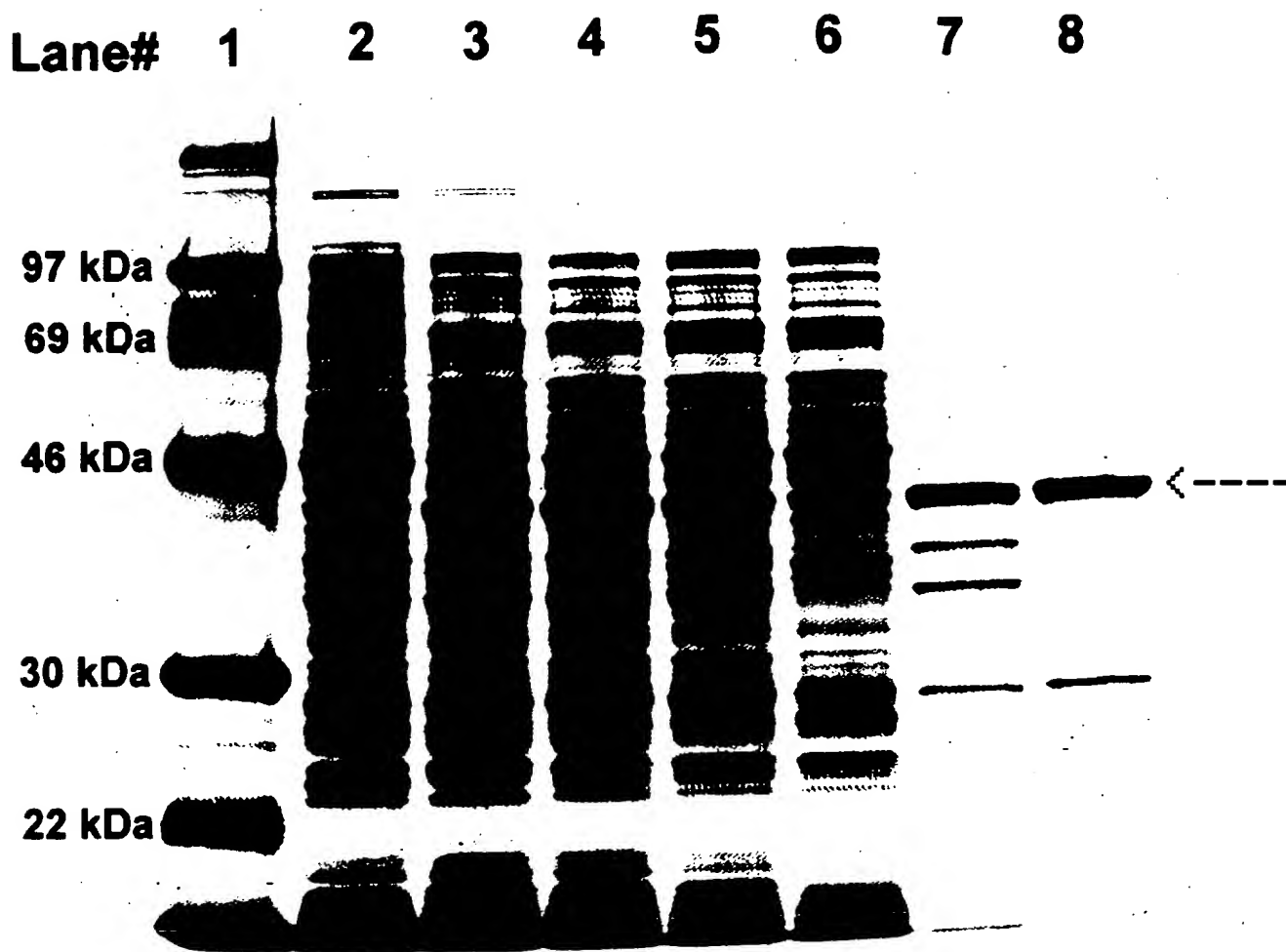


Figure 11A



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FIGURE 11B



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